

Understanding Member Shopping Patterns for the Fresh Foods Dept. **GOAL:**

Improve member satisfaction, increase sales, and enhance marketing.

KEY TASKS:

- Display data quickly to leaders
- Explore data visually
- Forecast sales trends
- Find correlation and associations between items
- Recommend similar products



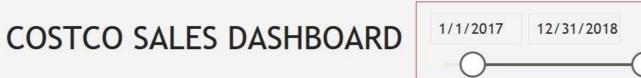




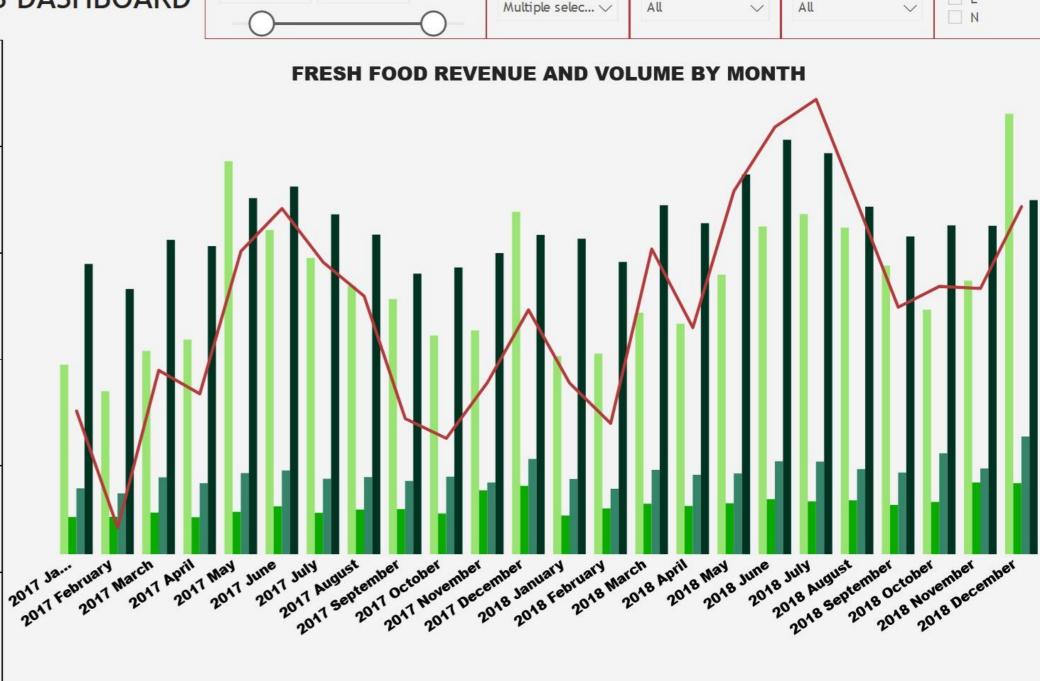
rwrush@uw.edu

DESCRIPTION

SHYAMALAA SATHYAMURTHY





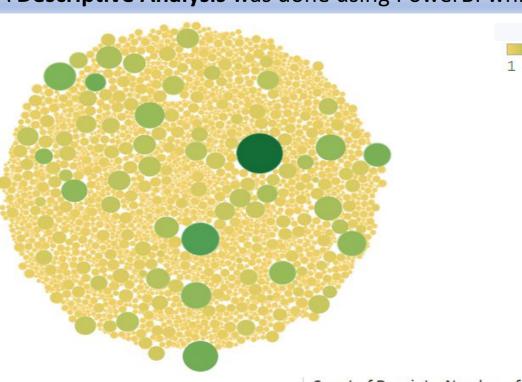


A **Descriptive Analysis** was done using PowerBI which provided the team with insights on the current state of the business.

2 LB STRAWBERRIES

3,122

Correlation



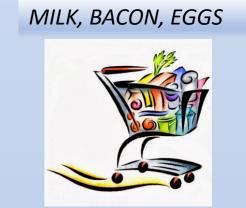


- Correlation
- Associative Rule Mining
- Item-Based Collaborative **Filtering**

MILK, EGGS, CEREAL, BREAD



MANGOS NA



TECHNOLOGIES ULTILIZED





accurately inform inventory planning.





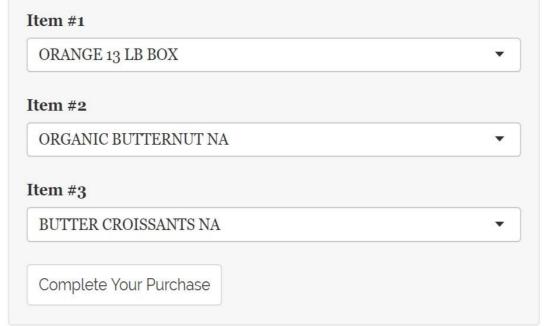
Count of Receipts Number of Units = 1,170 / 672 509 509 479 392

Distinct count o. Diagnostic Analytics were used to conduct a market basket analysis to display which items were

Product Recommender

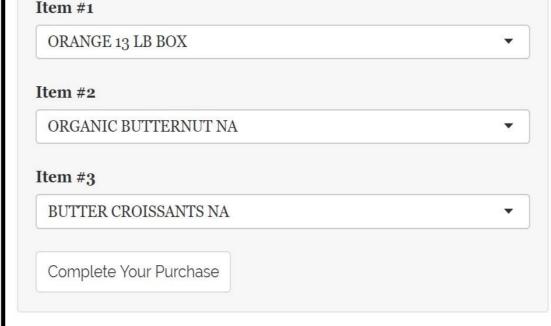
Select Items and Complete Transaction for Suggestions

correlated with each other by receipt count.

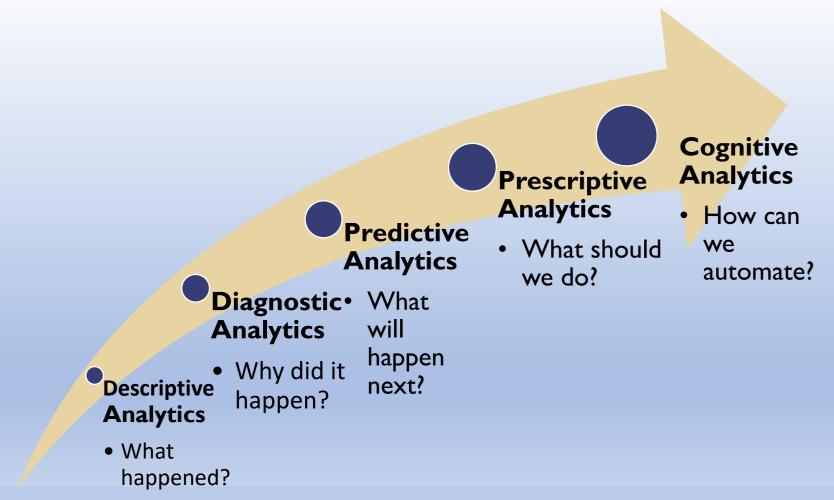


Other Items you Might Be Interested in

NOTE that not all combinations of products return suggestions LEMONS 5 LB BAG



For our **Prescriptive Analytics** solution, a product recommender tool was developed that Predictive Analytics were used to explore Sales trends in the Fresh Foods department. Combined with the Item forecast tool developed in Tableau, these tools can also be used to will suggest other items of interest to users in real-time as items are placed in their baskets.



RECOMMENDATIONS

- Consider Bundle or Promote Pairings
- Optimize Placement and Increase Sales Lift
- Create Insights For Key Decision Makers
- Use Item Based Collaborative Filtering

